



Trimble Civil Construction Solutions for John Deere Customers.



BENEFITS OF MACHINE CONTROL

TRIMBLE READY

Trimble has worked with many machine manufacturers to reduce the time spent on installation of Trimble machine control. Trimble Ready® machines ship from the factory ready for the installation of Trimble components, which can significantly reduce the cost and complexity of the installation for the contractor. By making it faster and less expensive to install Trimble technology, contractors can now realise an even quicker return on investment from their Trimble equipment. Ask your local heavy equipment dealer if the Trimble Ready option is available for your new machine.

**PRODUCTION
INCREASED BY
100%**



98%
ON GRADE
ACCURACY

43%
SAVINGS IN
DIESEL FUEL

“ K & E has 25 – 30 pieces of equipment set-up with SITECH. We pull slopes, dig ditches . . . everything. It’s a big investment, but we get it back very quickly because you have accuracy, you have productivity, you make more profit, you can get so much more done because you’re running the machine at 100% efficiency. I think our return on it is a year or less. I feel Trimble equipment is top notch. We couldn’t be happier – it’s the only way to go.

KERRY KUENZI, PRESIDENT – K & E EXCAVATING, INC. • SALEM, OR

PROVEN COMPONENTS THE RIGHT FIT FOR EVERY JOB

DISPLAYS AND CONNECTIVITY

Trimble SNM941 Connected Site® Gateway

Connect your machine with rugged hardware from Trimble. Featuring both Wi-Fi® and cellular connectivity, the SNM941 enables wireless data transfer of design files and GNSS corrections, and fleet, asset and site productivity information.



Trimble CB450 and CB460 Control Boxes

Designed for use in harsh construction environments, these displays for all machine types are part of the GCS900 Grade Control and PCS900 Paving Control Systems and give the operator a full-colour graphical display for easy viewing and guidance to grade.

The **CB450** features include:

- 4.3" (10.9 cm) full-colour LCD display with adjustable backlight controls
- Audible tones for real-time grade guidance or warnings and alerts
- Four LED light bars to provide grade guidance at a glance



The **CB460** offers the same key features as the CB450, plus:

- A large, easy-to-read 7" (17.78 cm) full-colour LCD display
- Support for external light bars
- Faster data transfer via Ethernet connection



2D COMPONENTS

Spectra Precision GL700 Series Grade Laser

Spectra Precision GL722 Series Grade Lasers provide years of durable, precise machine guidance with GCS900 2D Grade Control Systems, the GCSFlex Grade Control Systems and laser-based compact machine installations. Ideal for site preparation, trenching and pipe laying, fine grading and road construction, the GL700 lasers can help you get to grade faster with more accuracy.



Trimble LR410 Laser Receiver

The LR410 is mounted to an electric mast on the blade and connected to the machine hydraulics to control lift to an accuracy of 3-6 millimetres (0.01 to 0.02 feet).



Trimble ST400 Sonic Tracer

The ST400 is mounted to the blade and uses a physical reference such as curb and gutter, stringline, existing or previous pass as an elevation reference.



Trimble TD510 and TD520 Displays

The 10-inch TD520 and 7-inch TD510 displays are the premium solution to ensure the best user experience with the Trimble Earthworks Grade Control and Trimble Roadworks Paving Control Platforms. With a specialised combination of anti-glare, powerful backlighting and advanced optical bonding techniques, these displays combine at-a-glance sunlight readability with an easy-to-use, multi-touch interface. Built on top of a powerful 3D graphics engine and processing platform, the Android operating system means you can extend the display with additional applications without upgrading hardware or adding an additional display.



Features include:

- Sunlight-readable, optically bonded LCD with capacitive multi-touch interaction
- Android operating system for easy software extensibility
- Powerful quad core processor platform with dedicated graphics processor
- Integrated Bluetooth and Wi-Fi for wireless connectivity
- Quick release RAM mounting for daily theft protection removal

3D COMPONENTS

Trimble MS995 GNSS Smart Antenna

The MS995 contains an integrated GPS+GNSS receiver, antenna, and isolation system all in a single, durable housing. It uses the advanced Trimble RTK engine for faster initialisation times when the satellite lock is lost and enhanced performance near obstructions.



Trimble GNSS MS975 Smart Antenna

The MS975 offers a cost-effective alternative for contractors who need a highly accurate GNSS receiver at a lower price point. It is optimised for cab or machine body mount only.



Trimble SNR On-Machine Radios

Rugged Trimble on-machine radios offer a modernised platform for communicating with Trimble Universal Total Stations or with a fixed GNSS base station. Available in:

- Single-band 450 MHz, 900 MHz, and 2.4 GHz
- Dual-band 900 MHz + 2.4 GHz and 450 MHz + 2.4 GHz



Trimble Total Stations

Trimble SPS Series Universal Total Stations can be used for even greater accuracy when performing fine or finished grading, with blade guidance to 2-5 millimetres (0.007 to 0.016 feet).



Trimble machine control systems are flexible enough to let you equip your entire fleet—excavators, dozers, scrapers, graders, trimmers, milling machines, compactors, pavers and more—with fully upgradeable technology. Start where you need to start and add as you need to add. Select the best option for the machine and application: sonic, angle sensors, laser, GNSS or total station.

2D ENTRY-LEVEL MACHINE CONTROL SYSTEMS

Trimble entry-level 2D machine control systems are ideal for smaller projects from initial site prep through to finished grading and paving, and leverage a range of fully portable components. All components are easy to move from machine-to-machine, easy-to-use, quick to set up and extremely durable to ensure the highest uptime and longest life possible in on-site conditions. Additionally, these systems can be operated in manual or auto mode; in auto mode the blade is automatically moved to the correct position.

2D MACHINE CONTROL SYSTEMS

CONFIGURATION	TARGET MACHINES	DESCRIPTION	KEY COMPONENTS
CROSS-SLOPE ONLY	Dozers, Graders, Compact Grading Attachments	Cross-slope control system to be used on motor graders for fine grading work for road maintenance, ditches and slope work	2 angle sensors, Rotation sensor Control box, SNM941
SINGLE ELEVATION PLUS CROSS-SLOPE	Dozers, Graders, Compact Grading Attachments	Single control system uses a laser or sonic receiver to control the lift of the machine blade and the cross-slope for flat, slope work, and finished grading	Laser, Laser receiver -or- Sonic tracer, Rotation sensor, 2 angle sensors, Control box, SNM941
DUAL ELEVATION	Dozers, Graders, Compact Grading Attachments	Dual control system that uses two laser or sonic receivers for higher accuracy lift control, blade edge can be controlled independently or linked	Laser, 2 Laser receivers -or- 2 Sonic Tracers, Control box SNM941
DEPTH, SLOPE, AND ELEVATION CONTROL	Excavators	Highly flexible system for excavation, trenching, grading and profile work	Angle sensors, Laser catcher, Control box, SNM941

3D MACHINE CONTROL SYSTEMS

Trimble machine control systems are the most versatile grading technologies available and can be used on a wide range of machine types including excavators, dozers, motor graders, compactors, milling machines, trimmers, pavers and more. By putting design surfaces, grades and alignments inside the cab, the system gives operators unprecedented control over grading, excavating, compaction and paving applications, significantly reducing material overages and dramatically improving productivity and profitability. The 3D systems can be operated in manual or auto mode and leverage a range of components that are fully portable and can be easily moved from machine to machine.

3D MACHINE CONTROL SYSTEMS

CONFIGURATION	TARGET MACHINES	DESCRIPTION	KEY COMPONENTS
SINGLE GNSS	Dozers, Graders, Scrapers, Excavators, Compact Grading Attachments	Measures the position and slope of the blade and compares that to design data for grading and mass excavation on complex design surfaces	Angle and rotation sensors, Single GNSS Smart Antenna, Control box, Rugged on-machine radio and SNM941
DUAL GNSS	Dozers, Graders, Scrapers, Excavators, Compact Grading Attachments	Measures the exact position, cross slope and heading of the blade, bucket, drum for rough grading and mass excavation on steep slopes and complex design surfaces	Dual GNSS Smart Antennas, Control box, Rugged on-machine radio and SNM941
CAB-MOUNTED SINGLE GNSS	Dozers, Wheel Loaders	Measures the position of the blade on the ground, comparing that to the 3D design for rough grading applications	Single GNSS Smart Antenna, Control box, Rugged on-machine radio and SNM941
SINGLE OR DUAL GNSS WITH LASER AUGMENTATION	Dozers, Graders	Single and dual GNSS systems enhanced with laser augmentation to improve vertical accuracy for high accuracy guidance to complex design surfaces such as super-elevation grading for rough through finished grade work	Single or dual GNSS Smart Antenna(s), Laser receiver, Control box, Rugged on-machine radio and SNM941
UNIVERSAL TOTAL STATION	Dozers, Graders, Excavators, Soil Compactors, Compact Grading Attachments	Total station-based system for high accuracy lift and layer control, material placement and monitoring, or for jobs where GNSS is not the ideal solution because of overhead obstructions	Single on-machine active target, Control box, Universal Total Station, Rugged on-machine radio and SNM941
3D + SONIC	Graders, Compact Grading Attachments	Uses 3D control on one blade tip and a sonic tracer on the other blade tip to match an existing structure, feature or the last machine pass	On-machine active target -or- GNSS Smart Antenna(s), Sonic tracer, Control box, Rugged on-machine radio and SNM941



TRIMBLE EARTHWORKS

CONTROL THE FUTURE

MACHINE CONTROL REDEFINED

The Trimble® Earthworks Grade Control Platform offers groundbreaking features for all machine types. It is designed to help you do more in less time. State-of-the-art software and hardware give operators of all skill levels the ability to work faster and more productively than ever before.

INTEGRATES WITH TRIMBLE WORKSMANAGER

To ensure everyone is operating from the latest design, transfer data files to or from the office wirelessly and automatically using Trimble WorksManager, mobile-friendly software that easily manages data and technology assets across project sites.

EARTHWORKS ASSISTANT APP

The Earthworks Assistant App is a stand-alone app that consolidates and simplifies access to training guides and videos inside and outside of the cab. It makes it easy to learn and troubleshoot using an Android cell phone, even from remote sites. The user has access to critical Earthworks learning material and documentation, allowing for a shorter learning curve and less downtime for operators.

Available on the Google Play Store

INTUITIVE SOFTWARE

The software was created in collaboration with construction equipment operators around the world, so the interface is optimised for ease-of-use and productivity.

- Colourful graphics, natural interactions and gestures, and self-discovery features make Earthworks intuitive and easy to learn
- Each operator can personalise the interface to match their workflow using a variety of configurable views
- Files can be transferred to or from the office wirelessly and automatically so you've always got the latest design



THE KEY COMPONENTS

- 10" or 7" touch 3D Colour-Display
 - Gorilla® Glass
 - Best visibility even in bright sunlight
- Android® operating system

TRIMBLE EC520 ELECTRONIC CONTROLLER

- The processing unit is separated from the display and is permanently installed on the machine
- Integrated Inertial Measurement Unit (IMU) body sensor with 6 degrees of freedom
- Optional integrated Wi-Fi for on machine wireless connectivity to Displays, Laptops, Hot Spots or Mobile devices
- 4 GB internal memory for machine data and designs



TRIMBLE GS520 SENSOR

- Six degrees of freedom inertial measurement unit, based on the latest inertial sensor technology and particularly responsive:
- 100Hz, 3x axle pitch, 3x axle acceleration
- Compact form factor: Mount in any orientation
- Suitable for harsh vibration environments
- Excavator bucket, dozer and grader blades
- Mount directly to linkage; no shock mounting required
- Precision locating feature for positioning and re-positioning



TRIMBLE EARTHWORKS FOR EXCAVATORS

INTRODUCING UNDERTIME

Trimble Earthworks for excavators was the first aftermarket semi-automatic bucket and boom control system and gives your operation many competitive advantages so you can finish on-time and on-budget.

AUGMENTED REALITY

With the Augmented Reality feature available in Trimble Earthworks Grade Control Platform for excavators, operators can view 3D models in a real-world environment at a true-life scale, in the context of existing surroundings. Augmented Reality simplifies complex concepts by allowing users to work faster and safer using a blend of digital content and real-world environments.

TILTROTATOR SUPPORT

Trimble Earthworks works with tilt automatics on engcon®, Rototilt®, and Steelwrist® attachments. The system controls the boom and bucket of the excavator as well as the tilt angle of the attachment, while the operator controls the stick of the excavator and rotation of the tiltrotator.

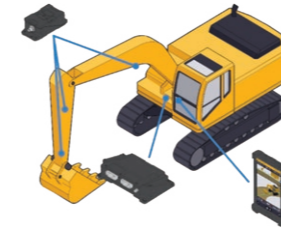
PAYLOAD MANAGEMENT INTEGRATION

Trimble Earthworks has the option to display grade control and accurate payload data on one screen. Increase your mass haul productivity and efficiency by preventing underloading, and improving safety by avoiding overloading. Track productivity with the optional Bluetooth printer and web-based reporting.



VARIOUS CONFIGURATIONS

ACCORDING TO YOUR NEEDS



2D CONFIGURATION FOR HEIGHT AND SLOPE

Flexible entry level solution for excavation, sewer construction, levelling work and profile work - the start of productivity.



3D - DUAL GNSS

Powerful 3D control system measuring the exact position of the bucket for grading and excavating tasks such as steep slopes and complex projects.



2D/3D AUTOMATIC SYSTEM

The automatic system controls the hydraulics of the machine and achieves high precision in flat or inclined surfaces. With the benefits of automatic functionality, increase the productivity of your machine up to 40%.



PAYLOAD MANAGEMENT INTEGRATION

With the addition of Trimble LOADRITE Payload Management, you can avoid overloading and underloading to be more efficient and manage costs. Featuring dynamic weighing, accurately weigh without interrupting your workflow or loading process.

Operators achieve improved grading productivity and accuracy - at all experience levels.

EXPERIENCED OPERATOR



FOLLOWING THE DESIGN WITHOUT AUTOMATICS

37 minutes
43% within tolerance

WITH TRIMBLE AUTOMATICS

22 minutes
74% within tolerance

41%
faster

75%
more accurate



BEGINNER OPERATOR

FOLLOWING THE DESIGN WITHOUT AUTOMATICS

43 minutes
38% within tolerance

WITH TRIMBLE AUTOMATICS

31 minutes
75% within tolerance

28%
faster

100%
more accurate

TRIMBLE EARTHWORKS FOR DOZERS

CONTROL THE FUTURE

FOCUS ON GRADE

Horizontal Steering Control for dozers automatically controls the machine to follow any horizontal alignment such as a curb, breakline, roadway centerline or bottom of slope, without operator assistance. Operators can also manually set up offsets from selected alignments that the machine can follow.

Horizontal Steering Control allows the operator to focus on the grade, machine productivity and safety rather than worrying about steering, which reduces operator fatigue and errors. It enables the machine to follow the horizontal guidance from the 3D model, providing operators increased awareness of their surroundings, better accuracy and improved productivity with decreased overlap and fewer passes.



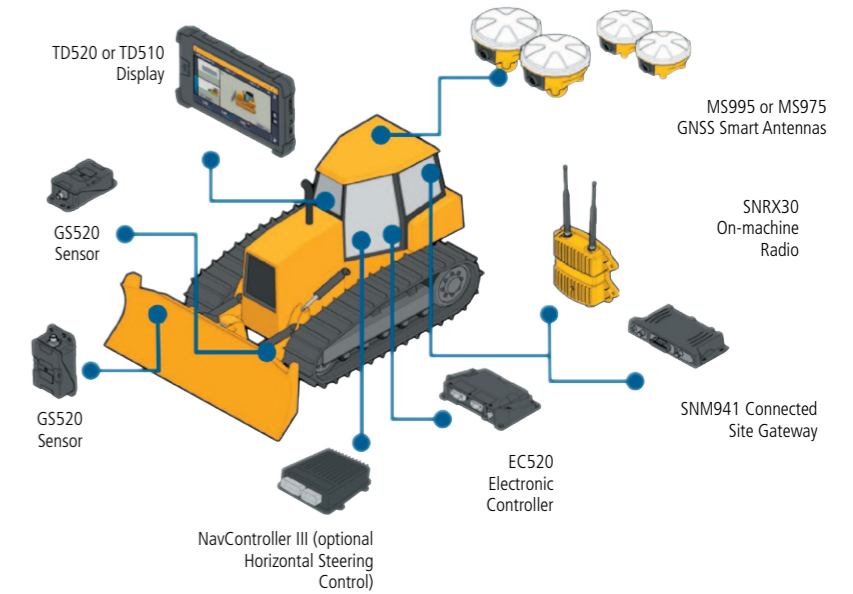
TRIMBLE EARTHWORKS

DOZER 3D CONFIGURATION OPTIONS

CAB-MOUNTED PORTABILITY

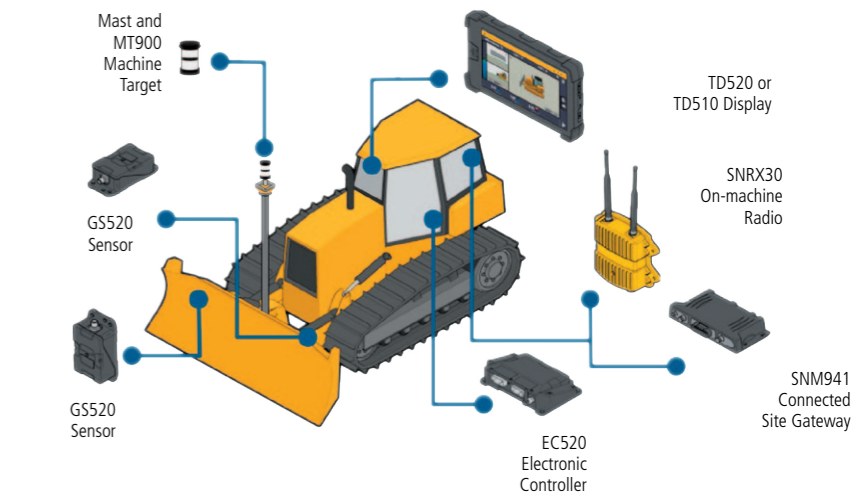
Trimble Earthworks for Dozers mounts dual GNSS receivers on top of the cab to eliminate masts and cables traditionally located on the blade. The dual GNSS receivers are ideal for steep slope work and complex designs with tight tolerances.

This configuration allows you to easily remove the receivers to other machines, to maximise your investment and keep your machines working. Cab-mounting receivers is more convenient and can save you time by reducing the need to reinstall them each day.



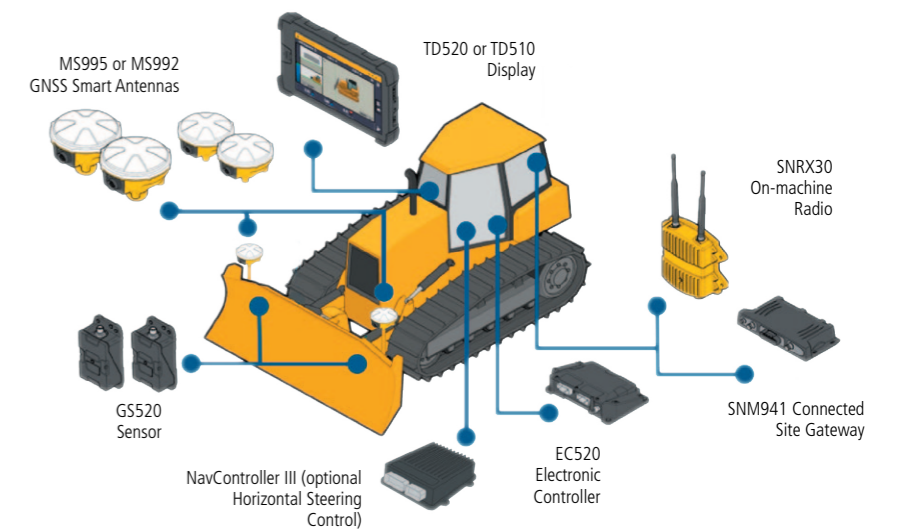
UNIVERSAL TOTAL STATION SYSTEM

For supported cab mount GNSS models, the high precision blade mount options for laser and UTS expand the capabilities of the machine control system to operate in GNSS obstructed environments and tasks requiring higher precision than a GNSS guided solution.



BLADE MOUNT DUAL GNSS SUPPORT

The blade mount dual GNSS configuration allows for a broader range of supported Dozer models. This enables older machine models in the fleet to have Trimble Earthworks guidance and control for the operator. The Blade-Mount GNSS only supports Dual GNSS (MS995 and MS992).



TRIMBLE EARTHWORKS FOR GRADERS

RUNNING ON TIME

The Trimble® Earthworks Grade Control Platform for motor graders helps operators of all levels leave a quality surface. This next generation system with a familiar Android™ UI, and user friendly 10-inch touch screen cuts the learning curve, improves operator capabilities, and gives you a first-pass finish that's second to none.

MASTLESS GNSS CONFIGURATION

Trimble Earthworks Grader enables a mastless GNSS configuration for supported Caterpillar motor grader models. This mounts one GNSS receiver on the cab and the second GNSS on the gooseneck of the machine to eliminate masts and cables traditionally located on the blade. The mastless GNSS configuration is ideal for applications to enable the blade's maximum range of motion such as steep slope work and complex designs that need to be built to tight tolerances. The new configuration also decreases risk of damage to the machine, as well as reduce the time needed to remove and reinstall GNSS receivers each day.

LEGENDARY PRECISION WITH UTS

Earthworks for Motor Graders with Trimble Universal Total Stations is THE configuration for finish grading with fewer passes. Contractors can place finished grade materials more accurately and in a shorter time period, keeping material costs to a minimum and improving productivity.

DUAL-GNSS ACCURACY

Trimble, a leader in precision measurement technology, pioneered the dual GNSS solution to meet the needs of the construction industry. Dual GNSS provides real-time position and heading of the machine for guidance of the motor grader blade in 3D, enabling faster reaction times and enhanced performance.

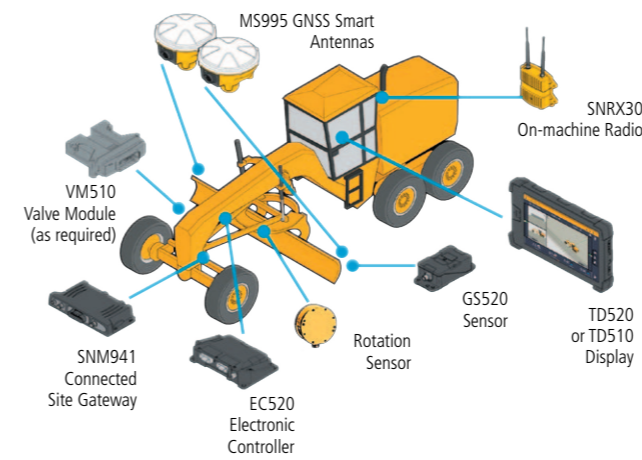
The IMU-based system offers even better GNSS performance, for more accuracy and stability. The platform supports multiple correction services, including VRS and Internet Base Station Service (IBSS). And when a correction source is temporarily unavailable, the Trimble xFill feature will fill in the gaps to maximise up-time.



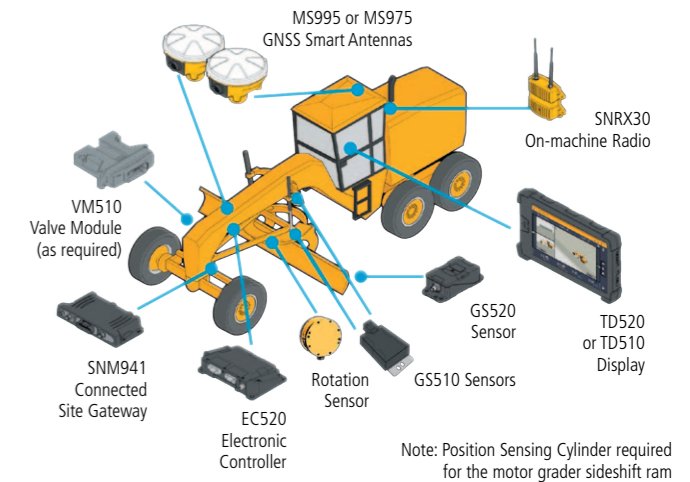
TRIMBLE EARTHWORKS

GRADER 3D CONFIGURATION OPTIONS

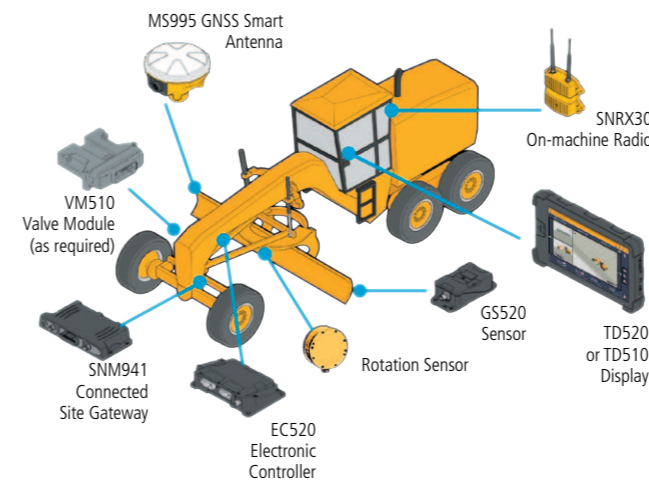
BLADE-MOUNTED DUAL GNSS SYSTEM



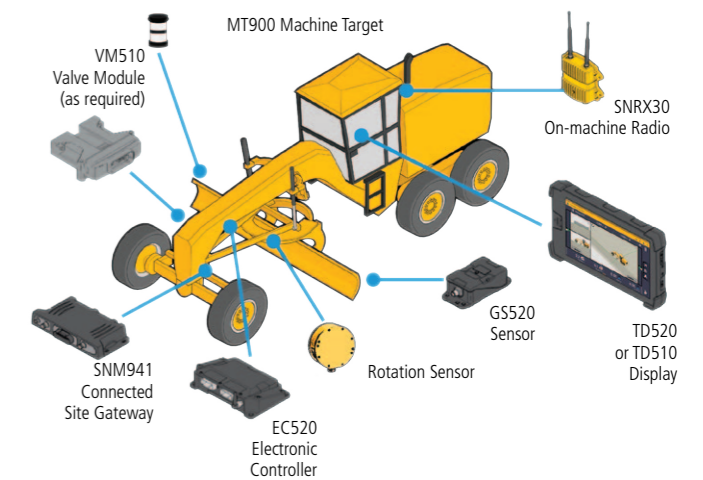
MASTLESS DUAL GNSS SYSTEM



BLADE-MOUNTED SINGLE GNSS SYSTEM



UNIVERSAL TOTAL STATION SYSTEM

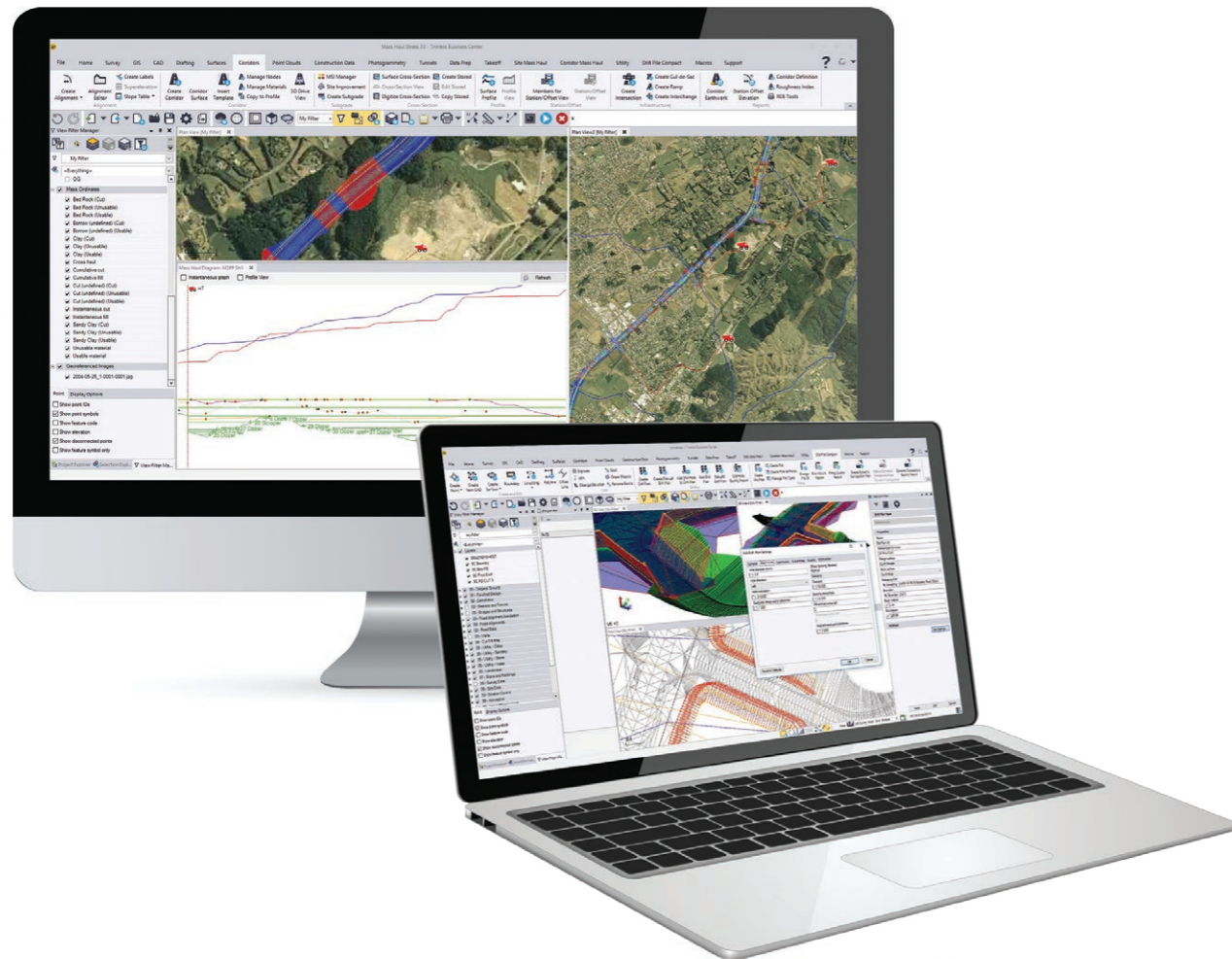


TRIMBLE BUSINESS CENTER

POWERFUL TOOL TO MANAGE DATA AND CREATE DESIGNS

Trimble Business Center contains powerful tools to help you quickly and easily create accurate, integrated 3D constructible models for sites, highways and marine applications. Make better decisions, decrease costly mistakes, and increase efficiency in the office and on-site.

- Reduce drive time by effectively and seamlessly managing data between the office, Trimble Site Positioning Systems and Trimble machine control technology
- Rapidly create, edit and draft, generate reports and plots, and publish information
- Reduce rework by ensuring data is clean, up-to-date and delivered in the right format to get the job done
- Win more bids by preparing earthwork and construction takeoffs quickly and accurately with expanded levels of detail
- Increase profit by optimising the site and corridor earthworks
- Works seamlessly with Trimble Siteworks Software, SCS900 Site Controller Software, Trimble Earthworks, Trimble GCS900 Grade Control System, Trimble PCS900 Paving Control System, Trimble CCS900 Compaction Control System, Cat® AccuGrade™ and Cat GRADE Grade Control Systems



EDITIONS AND MODULES

Trimble Business Center is available in editions, with add-on modules to customise functionality for your specific workflow.

Viewer Edition

- Basic functionality available at no cost
- Import and export data to Trimble field devices
- Data viewing and querying of properties

Field Data Edition

- Fast, accurate and affordable field data management
- Add the GIS Module to view Geographic Information System (GIS) data
- Basic CAD drawing and editing functions
- Level and Total Station data processing

Surface Modeling Edition

- Create, edit and manage surface models
- Compute and report volumes and areas
- Create cut/fill maps
- Create, edit, label and manage alignments
- Add the Drilling, Piling and Dynamic Compaction Module to access features for specialised groundwork applications

Survey Intermediate Edition

- Import, georeference, edit and extract vectors from Adobe® PDF and image files
- Calculate network adjustments
- Carry out site calibration computations
- Create dynamic labels and tables

Survey Advanced Edition

- Create and run TML macros (Python-based scripts)
- Create and edit corridor models and surfaces
- Advanced drafting features bring polished design to your presentation, work plans or as-built information
- Includes advanced survey features
- For advanced functionality, add the Mobile Mapping Module
- Add the Tunneling Module to more effectively manage tunneling project data
- Add the Scanning Module and Aerial Photogrammetry Module for additional surveying functionality

Site Modeling Edition

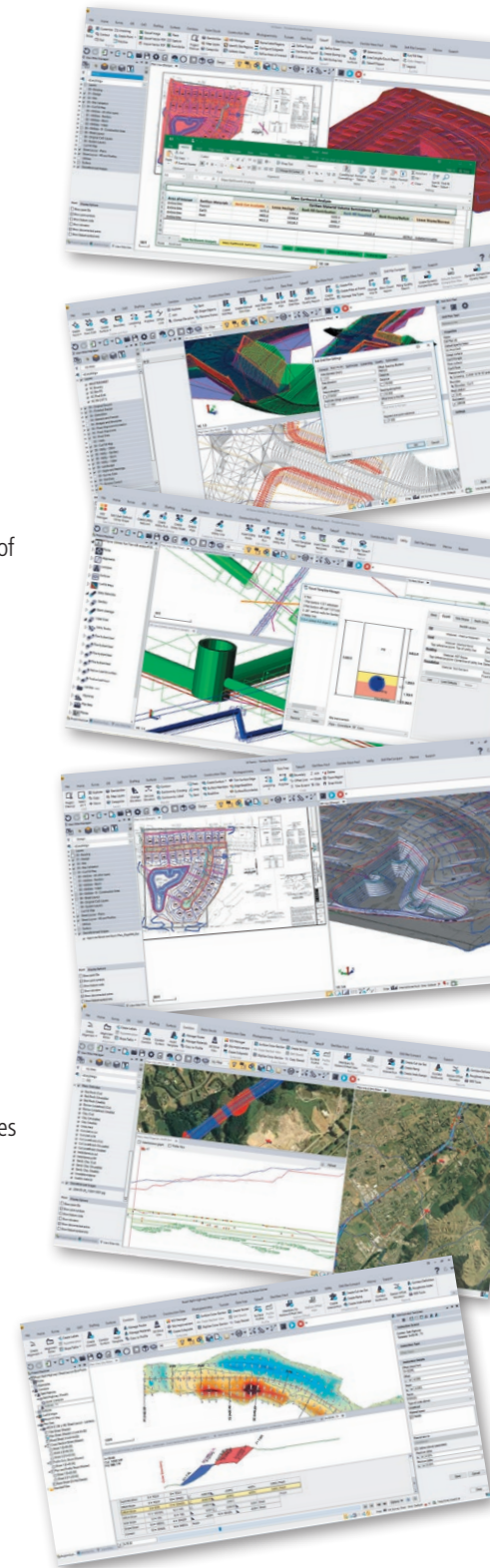
- Data prep functionality quickly converts 2D or improperly elevated CAD data into properly elevated objects that can be sent to the field for construction
- Includes site modeling tools and an interface to VisionLink production models
- Add the Utility Modeling Module to simplify site and infrastructure construction

Site Construction Edition

- Site takeoff features save time and decrease the learning curve by using one piece of software to import Adobe PDFs, trace contour lines, create surfaces, apply site improvements to specify materials and depths and get an accurate report of quantities and costs
- Streamline your entire workflow from estimation, to design through preparation and drafting
- Create and edit site mass haul computations to balance earthwork and minimise earth moving
- With added road takeoff tools, convert digital CAD cross-sections, rapidly extract cross-section information from Adobe PDF vector files and quickly see locations and quantities of materials

Infrastructure Edition

- Linear mass haul functionality helps determine how much to move, from where, to where, and what it will cost to get it all done
- Included intersection design workflow reduces the complex and labour-intensive design task to minutes by automatically creating parametric intersections from corridors with defined templates



TRIMBLE SITEWORKS SYSTEMS

FOR CONSTRUCTION SURVEYORS AND SUPERVISORS

MADE FOR THE WAY YOU WORK

The fully integrated Trimble Siteworks Positioning Systems are designed to eliminate downtime by making every minute more productive. With increased processing power and Microsoft® Windows® 10, the systems enable quicker handling of complex files and 3D data sets, all on a much larger screen—meaning you can spot issues and solve problems before they slow you down.

SITWORKS POSITIONING SYSTEMS

For Surveyors

The Trimble Siteworks Positioning System for Construction Surveyors includes Siteworks Software, the SPS986 or SPS785 GNSS Smart Antenna and either the TDC600 Handheld, TSC7 Controller, Panasonic® Toughpad® FZ-M1 or T7 Tablet.

Key Features

- Work with complex 3D models
- Collect large data sets faster
- Visualise and manipulate complex 3D models more easily
- Work day or night efficiently

Components

- Trimble Siteworks Software
- Trimble TSC7 Controller, T7 Tablet, TDC600 Handheld, or Toughpad FZ-M1
- Trimble SPS986 GNSS Smart Antenna
- Trimble SPS785 GNSS Smart Antenna

For Supervisors

The Trimble Siteworks Positioning System for Supervisors includes Siteworks Software, the SPS986 or SPS785 GNSS Smart Antenna and either the Panasonic Toughpad FZ-M1, T7 Tablet or T10 Tablet.

Key Features

- Run full office software packages, including Trimble Business Center and Microsoft Office
- Work easily with data and 3D models in the field
- Leave the laptop in the office

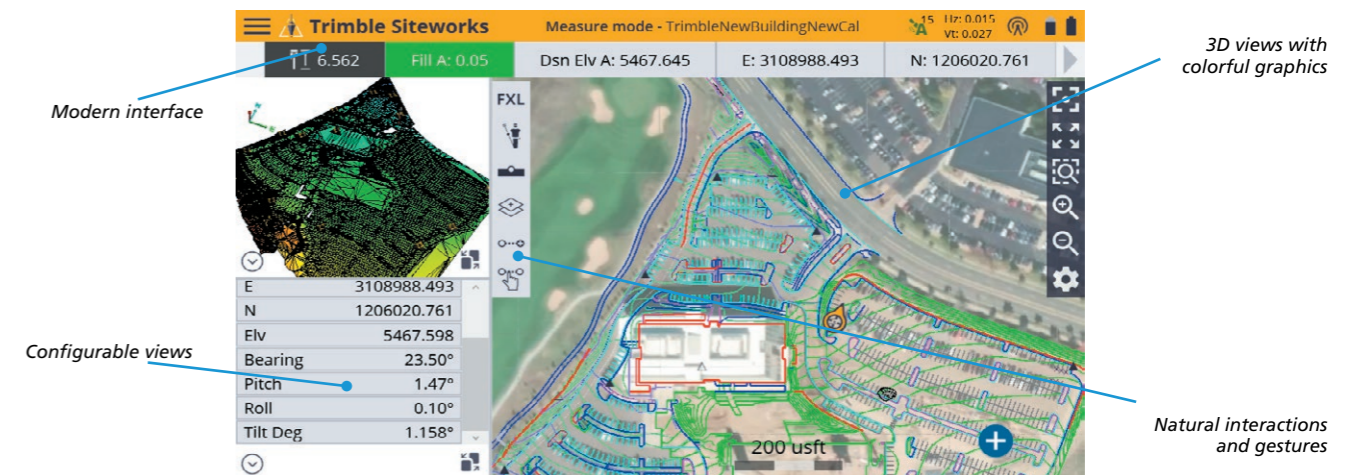
Components

- Trimble Siteworks Software
- Trimble T7, T10 Tablet or Toughpad FZ-M1t
- Trimble SPS986 GNSS Smart Antenna
- Trimble SPS785 GNSS Smart Antenna



TRIMBLE SITEWORKS SOFTWARE

Work faster and better with **Trimble Siteworks Software**. The modern interface is optimised for ease-of-use and productivity. VCL file support allows sharing of design data directly with other Trimble systems, simplifying data flows between off and on machine systems.



CONNECTED CONTROLLERS

Find the controller that best fits your needs and budget. Along with the options below, Siteworks Software also supports the Android operating system, increasing the flexibility and affordability of the Siteworks System.

Trimble TSC7 Controller

A bigger screen, powerful processing power and Microsoft® Windows® 10 means you're carrying all the potential of a laptop, right in the palm of your hand.

- 7-inch sunlight readable display
- Backlit keyboard
- Hot-swappable long-life lithium-ion batteries

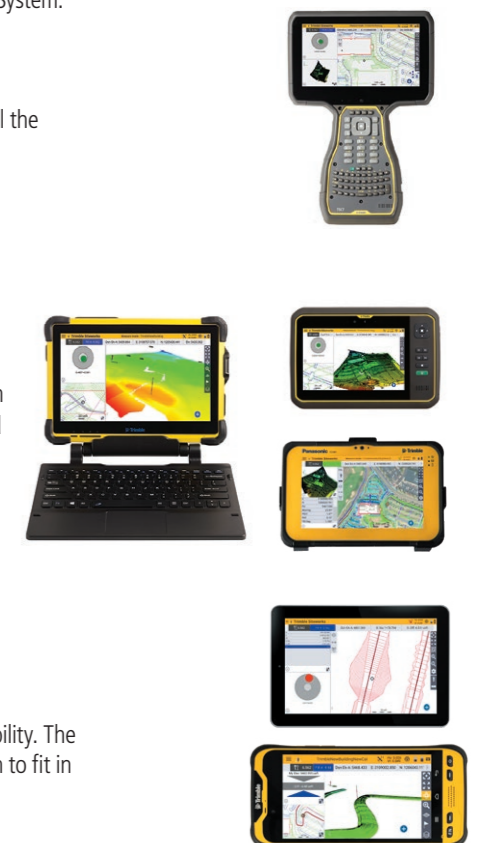
Trimble Tablets

The **Trimble T10 Tablet** gives you high performance processing power in the field, on a 10.1-inch screen. Both powerful 7-inch lightweight controllers, choose between the **Trimble T7 Tablet** and **Panasonic Toughpad FZ-M1** based on price point.

- Long-life batteries
- Sunlight readable display
- Microsoft® Windows® 10
- Hot-swappable long-life lithium-ion batteries

Android Devices

Siteworks Software supports the Android™ operating system for maximum flexibility and affordability. The 6-inch **Trimble TDC600 Handheld** offers full Siteworks functionality from a device small enough to fit in your pocket.



TRIMBLE SMARTER RECEIVERS

FOR CONSTRUCTION SURVEYING OR MACHINE CONTROL APPLICATIONS

TRIMBLE SPS785 GNSS SMART ANTENNA

The **Trimble SPS785 GNSS Smart Antenna** can be used as a base or rover, featuring Trimble quality and accuracy priced for a faster return on investment.

- GNSS receiver, antenna and battery in one unit
- Inside-the-rod UHF antenna for maximum protection and reliability
- Long range Bluetooth®

TRIMBLE SPS986 GNSS SMART ANTENNA

The **Trimble SPS986 GNSS Smart Antenna** is engineered to stand up to the most dynamic and rugged jobsite measurement applications.

- Ultra-rugged
- Integrated IMU for eBubble and tilt compensation
- Supports all GNSS constellations or rover
- Utilize CenterPoint RTX high-accuracy corrections via satellite or cellular/IP

TILT COMPENSATION

Using the **Trimble SPS986 GNSS Smart Antenna**, construction surveyors can capture accurate points without levelling the pole. Full GNSS tilt compensation makes Siteworks easier to learn for beginners and saves significant time for more experienced surveyors.

- Easily and safely survey hard to reach areas (corners, traffic lanes, utility lowlines)

- Faster measurements
- More efficient stake-outs
- Minimal magnetic interference

Capture accurate points while standing, walking or driving the site in a vehicle. Tilt compensation in vehicle mode is designed to capture higher accuracy measurements on steeper slopes from a moving vehicle, and more accurate volume measurements to save time and money on material planning.



TRIMBLE SITE POSITIONING SYSTEMS

THE RIGHT TOOLS TO DO THE JOB RIGHT

Trimble Site Positioning Systems give contractors targeted tools for every person on-site; work at every stage is performed faster, with fewer errors and less material costs.

Trimble Site Positioning Systems provide:

- The ability to measure, stake, check, manage, inspect
- Control and communications infrastructure
- Tools to move data between the office, machines, and site personnel
- The confidence to finish projects on time, on cost, and on specification

From the field, truck, or office, any person on the construction site can be connected and equipped with accurate positioning, consistent digital design information and the ability to locate, measure and record information. Contractors can share information, track results instantly, make smarter decisions, and manage multiple jobsites with ease. Data can be leveraged across more professionals on-site, making every resource a direct contributor to the success of the project.



Trimble SPS855 GNSS Modular Receiver

Whether you need a reliable GNSS base station or a rugged rover, the Trimble SPS855 GNSS Modular Receiver gives you the flexibility to perform all of your construction site measurements. As a permanent or semi-permanent base station, it provides GNSS corrections for site measurements and machine control. As a rover, it can move easily from a site supervisor truck to a pole mount for grade checking, site measurement and stakeout.

Trimble Total Stations

Trimble offers a full range of high accuracy total stations. The robotic Universal Total Stations come equipped with the industry's fastest servos, ensuring accurate high speed tracking of the target, making them ideal for machine control and site positioning. They include 3Hz scanning capabilities for the rapid scanning of surfaces such as deep cuts, rock faces and stockpiles in dangerous or inaccessible locations. Trimble also offers entry level total stations that are a cost-effective alternative for site measurement and stakeout. With an operating range of 500 metres (1640 feet), they are ideal for smaller site operations and work on structures such as bridges or culverts.



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